IN THE UNITED STATES PATENT AND TRADEMARK OFFICE
BEFORE THE BOARD OF PATENT APPEALS AND INTERFERENCES

In re Application of:	§	Group Art Unit: 2154
	§	
Thomas E. Saulpaugh, et al.	§	Examiner: Patel, Ashokkumar B.
	§	
Serial No. 09/692,765	§	Atty. Dkt. No.: 5181-65700
	§	P5014
Filed: October 19, 2000	§	
	§	
For: Event Message Endpoints in	§	
a Distributed Computing	§	
Environment	§	

RESPONSE TO NOTIFICATION OF NON-COMPLIANT APPEAL BRIEF
OF DECEMBER 5, 2007

Mail Stop Appeal Brief - Patents
Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir/Madam:

This paper is submitted in response to the Notification of Non-Compliant Appeal Brief of December 5, 2007. In the Notification of Non-Compliant Appeal Brief, the Examiner asserted, "'Summary of Claimed Subject Matter' is deficient because it does not map independent claims 27 and 36 to the specification, by page and line number." Appellants have revised the summary section to map independent claims 27 and 36 to the specification as requested by the Examiner. In a telephone call with Examiner Patel on January 7, 2008, the Examiner confirmed that only the Summary of Claimed Subject Matter section needs to be amended and provided in this response. In accordance with MPEP 1205.03, Appellants request that the summary section in the originally filed appeal brief be replaced with the revised summary section that appears below. Appellants respectfully request that the Board of Patent Appeals and Interferences consider this appeal.

V.   SUMMARY OF CLAIMED SUBJECT MATTER

Independent claim 1 is directed to a method for handling events in a distributed computing environment including receiving a message in a data representation language (*See, e.g.*, FIG. 45, item 1910; page 54, line 16 – page 55, line 24) sent to a client platform in the distributed computing environment (*See, e.g.*, page 13, lines 9-22) from a service in the distributed computing environment (*See, e.g.*, FIG. 6, item 110 and page 25, line 22 – page 26, line 11). The message includes a data representation language representation of an event (*See, e.g.*, page 13, lines 9-22 and page 53, line 27-page 55, line 24) generated by the service.

As described in Appellants' description, some embodiments of a distributed computing environment may support an event "publish and subscribe" messaging model using event message endpoints (also referred to as event message gates). A message gate may be a message endpoint for a client in a distributed computing environment to receive event notification messages in a "publish and subscribe" event messaging model in which services publish events to subscribing processes, sometimes referred to as clients (*See, e.g.*, FIG. 8 – 12, item 130; page 12, lines 4-27 and page 26, line 13 – page 27, line 16). In some embodiments, messages gates are used to both send and receive the published events. In some embodiments, a message gate may provide a secure message endpoint that sends and receives type-safe messages. According to Appellants' description, messages may be in a data representation language, such as XML in some embodiments (*See, e.g.*, page 12, lines 4-15; page 27, line 18 – page 28, line 29; page 29, lines 1- 28; page 30, line 1-21; page 52, lines 16 – 22; page 53, lines 1- 25). Thus, message gates may allow clients and services to exchange data representation language messages in a secure and reliable fashion over any suitable message transport, such as HTTP in some embodiments (*See, e.g.*, page 12, lines 4-15; page 27, line 18 – page 28, line 29; page 29, lines 1- 28; page 30, line 1-21; page 52, lines 16 – 22; page 53, lines 1- 25).

According to Applicants' description, message gates may also support publish and subscribe message passing for events (*See, e.g.*, page 31, lines 13-25; line 27 – page

32, line 13). Message gates with event support may be referred to as event gates. In some embodiments, an event message endpoint (or gate) may recognize a set of events published by a service, subscribe to events, receive event messages generated by the service, and distribute the received events to processes, such as clients, that have registered interest in the events with the event message endpoint *(See, e.g.,* page 32, line 21 – page 33, line 23). When an event is generated by a service, a message including a data representation language representation of the event may be sent to each event message endpoint subscribed as a consumer of the event. After receiving an event message from a service, an event message endpoint may extract the data representation language representation of the event from the message and distribute the event. An event gate (also referred to as an event message endpoint) may be constructed from the XML schema indicating a set of one or more events that may be published by the service *(See, e.g.,* page 33, line 24 – page 34, line 19; page 52, lines 16-29). An event gate may be configured to recognize some or all of the set of events published by a service, subscribe to those events, and distribute each event as the event is produced by the service. The event gate may subscribe by sending a subscription message for each event to which the gate desires to be subscribed *(See, e.g.,* page 31, lines 13-25; line 27 – page 32, line 13; page 32, line 21 – page 33, line 23; page 33, line 24 – page 34, line 19; page 52, lines 16-29).

The method of claim 1 also includes sending the data representation language representation of the event to processes registered to receive the event from the service *(See, e.g.,* FIG. 8 – 12, 44 and 45; items 130, 1904 and 1914; page 13, lines 9-22; page 52, lines 16 – 22; page 53, lines 1- 25; page 54, line 16 – page 55, line 24). For example, as described in Applicants' specification, event consumers, such as clients, or other processes may subscribe with the event message endpoint for various types of events. In some embodiments, an event consumer may supply an event handler callback method to the event message endpoint. As event messages arrive at the event message endpoint, the event message endpoint may call each event handler method, thus passing the data representation language representation of the event to each subscriber. Thus, event message endpoints may distribute data representation language representations of events

sent in messages from services to processes registered to receive the events (*See, e.g.*, page 13, lines 9-22; page 52, lines 16 – 22; page 53, lines 1- 25; page 54, line 16 – page 55, line 24).

Independent claim 14 is directed to a device including a processor, memory that is coupled to the processor and an event message gate unit (*See, e.g.*, FIG. 8 – 12, item 130; page 12, lines 4-27 and page 26, line 13 – page 27, line 16). The message gate unit is configured to receive a message in a data representation language (*See, e.g.*, FIG. 45, item 1910; page 54, line 16 – page 55, line 24) sent to a device in a distributed computing environment from a service (*See, e.g.*, FIG. 6, item 110 and page 25, line 22 – page 26, line 11) in the distributed computing environment. The message includes a data representation language representation (*See, e.g.*, page 13, lines 9-22 and page 53, line 27-page 55, line 24) of an event generated by the service (*See, e.g.*, page 12, lines 4-15; page 27, line 18 – page 28, line 29; page 29, lines 1- 28; page 30, line 1-21; page 52, lines 16 – 22; page 53, lines 1- 25).

The event message gate unit of claim 14 is also configured to send the data representation language representation of the event to processes registered to receive the event from the service (*See, e.g.*, FIG. 8 – 12, item 130; FIG. 44, 45, items 1904 and 1914; page 13, lines 9-22; page 52, lines 16 – 22; page 53, lines 1- 25; page 54, line 16 – page 55, line 24).

Independent claim 27 is directed to a device including a processor, memory, and a service process configured to generate an event. *See, e.g.*, FIG. 21 and 44, item 1900; page 12, lines 4-15; page 27, line 18 – page 28, line 29. The service process is further configured to generate a message in a data representation language (*See, e.g.*, FIG. 2-7 and 44, items 104, 1902, "Messages" and "XML Messages"; page 53, line 27-page 55, line 24) where the message includes a data representation language representation of the event (*See, e.g.*, page 13, lines 9-22 and page 53, line 27-page 55, line 24) generated by the service process.

The service process is further configured to send the message to one or more event message gate units (*See, e.g.,* FIG. 8 – 12, item 130; page 12, lines 4-27 and page 26, line 13 – page 27, line 16) in the distributed computing environment operable to distribute the data representation language representation of the event sent in the message from the service process to one or more processes registered to receive the event from the service process (*See, e.g.,* FIG. 44 and 45, items 1904 and 1914; page 12, lines 4-15 and page 55, lines 12-19).

Independent claim 36 is directed to a tangible, computer readable medium (See, e.g., page 145, lines 18-24) including program instructions computer-executable to implement receiving a message in a data representation language (*See, e.g.,* FIG. 45, item 1910; page 54, line 16 – page 55, line 24) sent to a client platform in the distributed computing environment from a service in the distributed computing environment. The message includes a data representation language representation (*See, e.g.,* page 13, lines 9-22 and page 53, line 27-page 55, line 24) of an event generated by the service.

The program instructions of claim 36 are also computer-executable to implement sending the data representation language representation of the event (*See, e.g.,* page 13, lines 9-22 and page 53, line 27-page 55, line 24) to one or more processes registered to receive the event from the service (*See, e.g.,* FIG. 44 and 45, items 1904 and 1914; page 12, lines 4-15 and page 55, lines 12-19).

The Summary above describes various examples and embodiments of the claimed subject matter; however, the claims are not necessarily limited to any of these examples and embodiments. The claims should be interpreted based on the wording of the respective claims.

CONCLUSION

Appellants submit that the Appeal Brief is in complete compliance with the Rules and respectfully request that it be considered.

If any fees are due, the Commissioner is authorized to charge said fees to Meyertons, Hood, Kivlin, Kowert, & Goetzel, P.C. Deposit Account No. 501505/5181-65700/RCK.

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Respectfully submitted,

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